SHARP SERVICE MANUAL

S3408R230HPK/

MICROWAVE OVEN

MODEL R-230HK

In the interest of user-safety the oven should be restored to its original condition and only parts identical to those specified should be used.

WARNING TO SERVICE PERSONNEL: Microwave ovens contain circuitry capable of producing very high voltage and current, contact with following parts may result in a severe, possibly fatal, electrical shock. (High Voltage Capacitor, High Voltage Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness etc..)

This is a supplemental Service Manual for Model R-230HK. This model is quite similar to base models R-230HW. Use this supplemental manual together with the Base Model Service Manual (Refer No. is S2303R220HPW/) for complete operation, service information, etc..

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SHARP CORPORATION

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The contents are subject to change without notice.

PRECAUTIONS TO BE OBSERVED BEFORE AND DURING SERVICING TO AVOID POSSIBLE EXPOSURE TO EXCESSIVE MICROWAVE ENERGY

(a) Do not operate or allow the oven to be operated with the door open.
(b) Make the following safety checks on all ovens to be serviced before activating the magnetron or other microwave source, and make repairs as necessary: (1) interlock operation, (2) proper door closing, (3) seal and sealing surfaces (arcing, wear, and other damage), (4) damage to or loosening of hinges and latches, (5) evidence of dropping or abuse.
(c) Before turning on microwave power for any service test or inspection within the microwave generating compartments, check the magnetron, wave guide or transmission line, and cavity for proper alignment, integrity, and connections.
(d) Any defective or misadjusted components in the interlock, monitor, door seal, and microwave generation and transmission systems shall be repaired, replaced, or adjusted by procedures described in this manual before the oven is released to the owner.
(e) A microwave leakage check to verify compliance with the Federal Performance Standard should be performed on each oven prior to release to the owner.

BEFORE SERVICING

Before servicing an operative unit, perform a microwave emission check as per the Microwave Measurement Procedure outlined in this service manual.
If microwave emissions level is in excess of the specified limit, contact SHARP ELECTRONICS CORPORATION immediately @1-800-237-4277.

If the unit operates with the door open, service person should 1) tell the user not to operate the oven and 2) contact SHARP ELECTRONICS CORPORATION and Food and Drug Administration's Center for Devices and Radiological Health immediately.

Service personnel should inform SHARP ELECTRONICS CORPORATION of any certified unit found with emissions in excess of 4mW/cm^2. The owner of the unit should be instructed not to use the unit until the oven has been brought into compliance.

SERVICE MANUAL

SHARP

MICROWAVE OVEN

R-230HK

FOREWORD

This Manual has been prepared to provide Sharp Electronics Corp. Service Personnel with Operation and Service Information for the SHARP MICROWAVE OVEN, R-230HK.

The model R-230HK is quite similar to base models R-230HW (Refer No. is S2303R220HPW/).

It is recommended that service personnel carefully study the entire text of this manual and the base model's manual so that they will be qualified to render satisfactory customer service.

Check the interlock switches and the door seal carefully. Special attention should be given to avoid electrical shock and microwave radiation hazard.

WARNING

Never operate the oven until the following points are ensured.
(A) The door is tightly closed.
(B) The door brackets and hinges are not defective.
(C) The door packing is not damaged.
(D) The door is not deformed or warped.
(E) There is no other visible damage with the oven.

Servicing and repair work must be carried out only by trained service personnel.

DANGER

Certain initial parts are intentionally not grounded and present a risk of electrical shock only during servicing.
Service personnel - Do not contact the following parts while the appliance is energized;
High Voltage Capacitor, Power Transformer, Magnetron, High Voltage Rectifier Assembly, High Voltage Harness;
If provided, Vent Hood, Fan assembly, Cooling Fan Motor.

All the parts marked "*" on parts list are used at voltages more than 250V.

Removal of the outer wrap gives access to voltage above 250V.

All the parts marked "Δ" on parts list may cause undue microwave exposure, by themselves, or when they are damaged, loosened or removed.

SHARP ELECTRONICS CORPORATION

SHARP PLAZA, MAHWAH,
NEW JERSEY 07430-2135

PARTS LIST

Note: The parts marked "Δ" may cause undue microwave exposure.
The parts marked "*" are used in voltage more than 250V.

	REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
			ELECTRIC PARTS		
	1- 1	QSW-MA085WRE0	Secondary interlock switch/ Door sensing switch	2	AF
	1- 1	QSW-MA137WRE0	Secondary interlock switch/ Door sensing switch (Interchangeable)	2	AH
	1- 2	FFS-BA030WRKZ	C/T fuse (120˚C/15A) and monitor switch assembly (AM51620C53Y1)	1	AS
	1- 3	FACCDA086WREZ	Power supply cord	1	AN
	1- 3	FACCDA081WRE0	Power supply cord (Interchangeable)	1	AP
	1- 3	FACCDA082WRE0	Power supply cord (Interchangeable)	1	AV
*	1- 4	FH-DZA102WRKZ	High voltage rectifier assy	1	AN
*	1- 4	FH-DZA106WRKZ	High voltage rectifier assy (Interchangeable)	1	AQ
*	1- 5	RC-QZA307WRZZ	High voltage capacitor	1	AX
*	1- 5	RC-QZA308WRZZ	High voltage capacitor (Interchangeable)	1	AN
*	1- 5	RC-PZA041WRE0	High voltage capacitor (Interchangeable)	1	AS
	1- 6	RMOTEA383WRE0	Fan motor	1	AV
	1- 6	RMOTEA355WRE0	Fan motor (Interchangeable)	1	AU
Δ*	1- 7	RV-MZA306WRZZ	Magnetron	1	BL
Δ*	1- 7	RV-MZA226WRE0	Magnetron (Interchangeable)	1	BE
Δ*	1- 7	RV-MZA261WRE0	Magnetron (Interchangeable)	1	BF
	1- 8	RLMPTA082WRZZ	Oven lamp	1	AL
	1- 9	RMOTDA211WRE0	Turntable motor	1	AS
	1- 9	RMOTDA186WRE0	Turntable motor (Interchangeable)	1	AW
	1-10	QFS-TA038WRE0	Temperature fuse 120˚C (Oven)	1	AK
*	1-11	RTRN-A699WRZZ	Power transformer	1	BG
*	1-11	RTRN-A661WRZZ	Power transformer (Interchangeable)	1	BF
*	1-11	RTRN-A659WRZZ	Power transformer (Interchangeable) for production use	1	--
			CABINET PARTS		
	2- 1	GCABUA828WRPZ	Outer case cabinet	1	BD
	2- 2	GLEGPA074WRE0	Foot	2	AC
	2- 3	PCUSUA605WRPZ	Cushion	1	AG
			CONTROL PANEL PARTS		
	3- 1	FPNLCB753WRKZ	Control panel frame with key unit	1	BA
	3- 1-1	PSHEPA941WREZ	Graphic sheet	1	AX
	3- 1-2	QSW-KA029DRZZ	Membrane switch	1	AQ
	3- 2	JBTN-B237WRFZ	Open button	1	AH
	3- 3	MSPRCA050WRE0	Open button spring	1	AB
	3- 4	DPWBFC240WRUZ	Control unit	1	BF
	3- 5	QCNC-A014WRZZ	Rubber connector	1	AE
	3- 6	RLCDSA105DRZZ	Liquid crystal display	1	AQ
	3- 7	XEPSD30P08XS0	Screw; 3mm x 8mm	3	AA
			OVENPARTS		
Δ	4- 1	PHOK-A122WRFZ	Latch hook	1	AM
	4- 2	LBNDKA038WRP0	Capacitor holder	1	AF
	4- 3	NFANJA029WRE0	Fan blade	1	AK
	4- 4	PDUC-A801WRWZ	Fan duct	1	AR
Δ	4- 5	**********	Oven cavity **(Not replaceable part)**	1	--
	4- 6	GCOVHA425WRPZ	Turntable motor cover	1	AK
	4- 7	MLEVPA241WRFZ	Switch lever	1	AG
	4- 8	PCOVPA276WRE0	Waveguide cover	1	AM
	4- 9	PCUSUA237WRP0	Cushion	2	AF
	4-10	PPACGA176WREZ	TTM packing	1	AC
	4-11	PCUSUA278WRP0	Cushion	1	AB
	4-12	PCUSGA568WREZ	Cushion	1	AC
			DOORPARTS		
Δ	5- 1	FDORFA348WRTZ	Door panel assembly	1	BC
Δ	5- 2	GWAKPA889WRFZ	Door frame	1	AX
	5- 3	HPNL-A796WRRZ	Door screen	1	AQ
Δ	5- 4	LSTPPA205WRFZ	Latch head	1	AF
	5- 5	MSPRTA187WRE0	Spring	1	AC
	5- 6	PSHEPA782WREZ	Sealer film	1	AG
	5- 7	GCOVHA424WRFZ	Choke cover	1	AK
	5- 8	PCUSUA622WRPZ	Cushion	1	AG
			MISCELLANEOUS		
	6- 1	NTNT-A094WRE0	Turntable	1	AN
	6- 2	FROLPA101WRKZ	Turntable support	1	AR

REF. NO.	PART NO.	DESCRIPTION	Q'TY	CODE
6- 3	TCAUAA271WRRZ	Monitor caution	1	AF
6- 4	TCAUAA268WRRZ	DHHS caution label	1	AF
6- 5	TINSEA967WRRZ	Instruction book	1	AM
6- 6	FW-VZB837WREZ	Main wire harness	1	AR

SCREWS,NUTS AND WASHERS

7- 1	XHPSD40P08K00	screw : 4 mm x 8 mm	2	AC
7- 2	XHTSD40P08RV0	Screw : 4mm x 8mm	4	AA
7- 3	LX-CZA070WRE0	Special screw (Torx tamper pfoof screw)	2	AC
7- 4	LX-CZ0052WRE0	Special screw	2	AA
7- 5	LX-EZA042WRE0	Special screw	2	AB
7- 6	XHPSD30P06000	Screw : 3mm x 6mm	1	AA
7- 7	XHPSD40P08000	Screw : 4mm x 8mm	3	AA
7- 8	XHTSD40P12RV0	Screw : 4mm x 12mm	1	AA
7- 9	XOTSF40P08000	Screw : 4mm x 8mm	2	AA
7- 10	XOTSD40P08000	Screw : 4mm x 8mm	9	AA
7- 11	XCPSD40P06000	Screw : 4mm x 6mm	1	AA

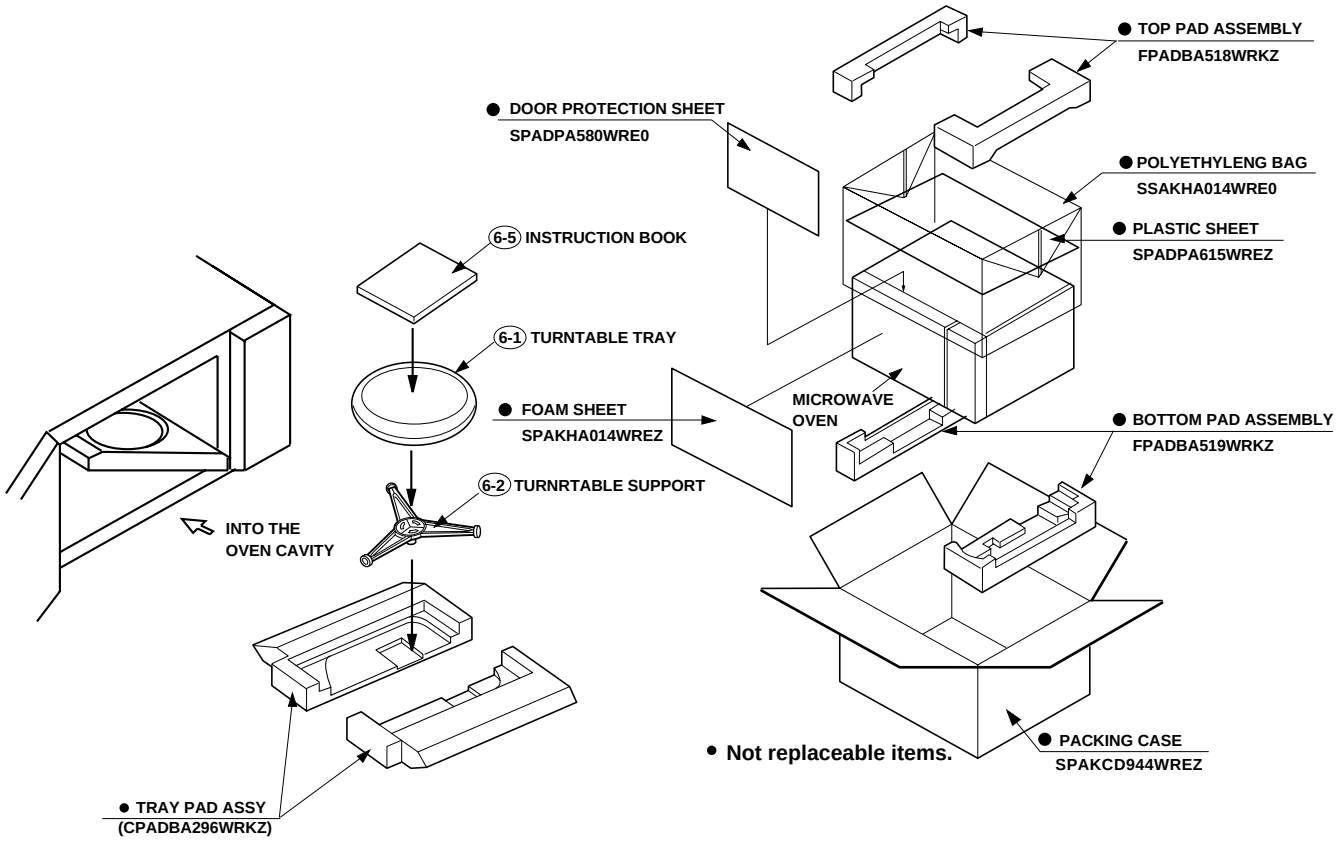
HOW TO ORDER REPLACEMENT PARTS

To have your order filled promptly and correctly, please furnish the following information.

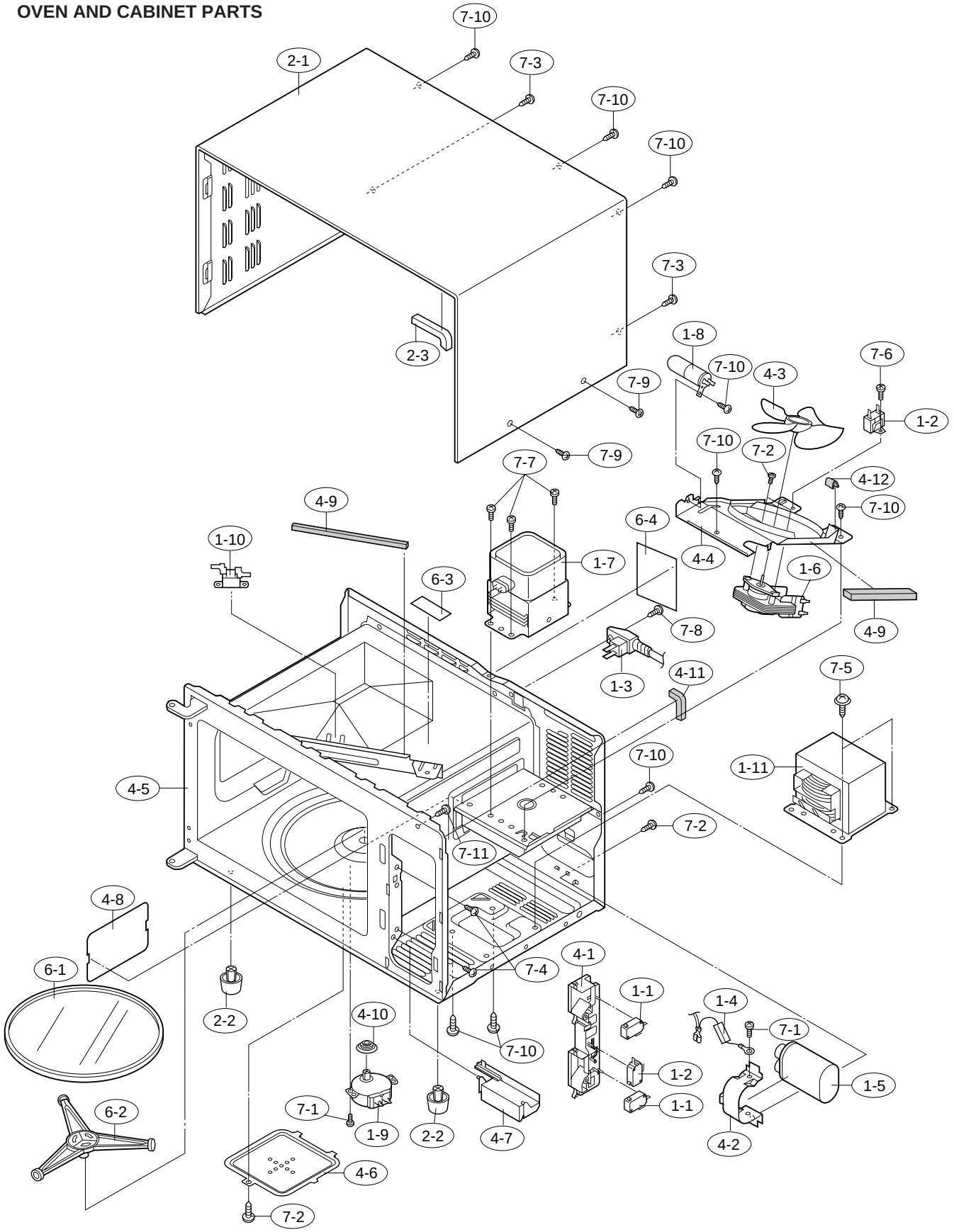
1. MODEL NUMBER 2. REF. NO. 3. PART NO. 4. DESCRIPTION

Order Parts from the authorized SHARP parts Distributor for your area.
Defective parts requiring return should be returned as indicated in the Service Policy.

PACKING AND ACCESSORIES

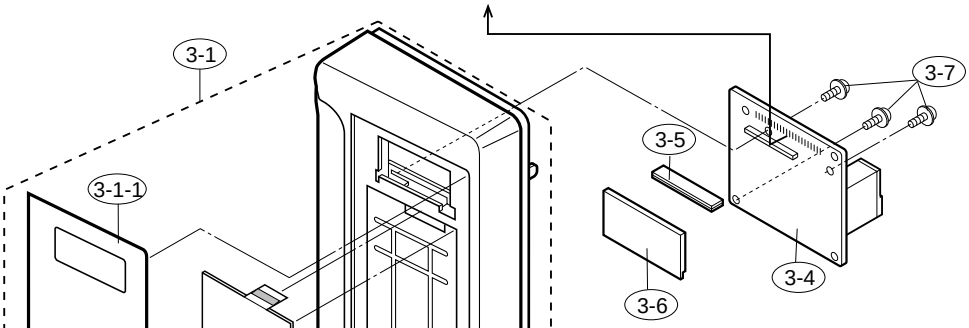


OVEN AND CABINET PARTS

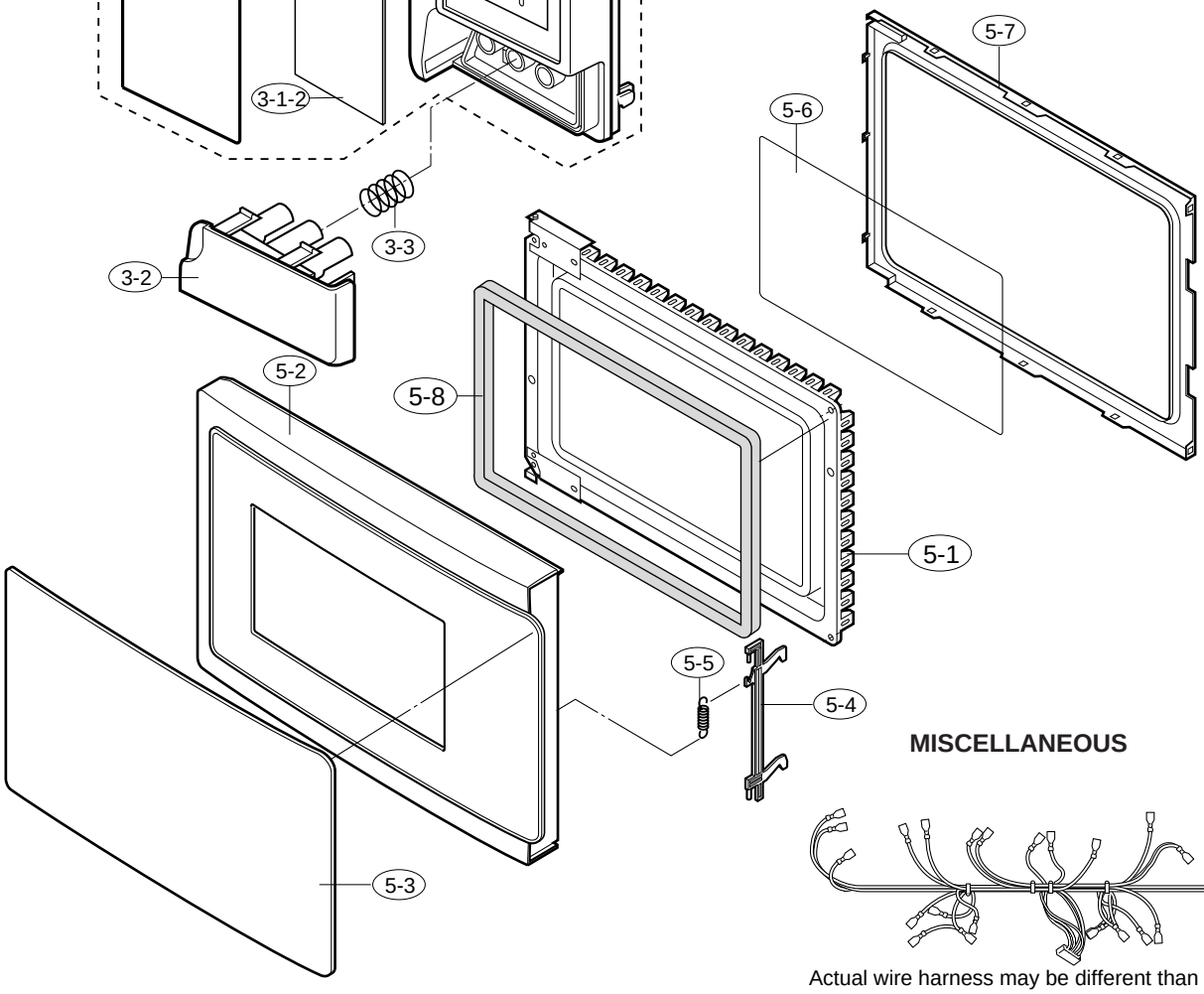


CONTROL PANEL PARTS

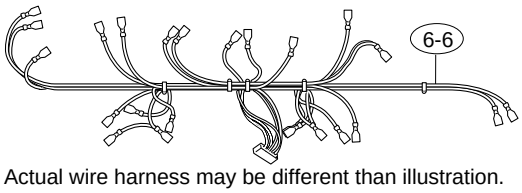
Before attaching Control unit to Control panel, foil side of Control unit must be cleaned by ethyl-alcohol.



DOOR PARTS



MISCELLANEOUS



Actual wire harness may be different than illustration.

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